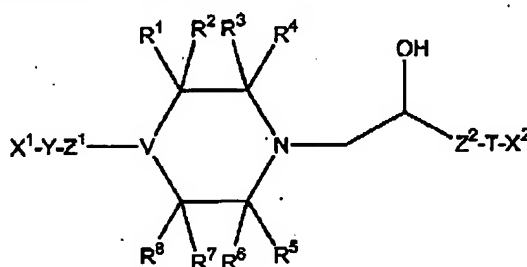


Response to July 6, 2005, Office Action
 Atty Dkt No. 01-0159-CIP-2
 Application No. 10/759,562

AMENDMENTS TO THE CLAIMS

The following listing of claims will replace all prior versions and listing of claims in the application. For the Examiner's convenience a complete listing of all claims incorporating the amendments made herein is attached as Appendix A.

1. (Currently Amended) A compound of the formula:



Formula I

wherein:

- $R^1, R^2, R^3, R^4, R^5, R^6, R^7$, and R^8 are hydrogen, lower alkyl, or $-C(O)R$; in which R is $-OR^9$ or NR^9R^{10} , where R^9 and R^{10} are hydrogen or lower alkyl; or R^1 and R^2, R^3 and R^4, R^5 and R^6, R^7 and R^8 , when taken together with the carbon to which they are attached, represent carbonyl; or R^1 and R^5 , or R^1 and R^7 , or R^3 and R^5 , or R^3 and R^7 , when taken together form a bridging group $-(CR^{12}R^{13})_n-$, in which n is 1, 2 or 3, and R^{12} and R^{13} are independently hydrogen or lower alkyl;

with the provisos that

- the maximum number of carbonyl groups is 2;
- the maximum number of $-C(O)NR^9R^{10}$ groups is 1; and
- the maximum number of bridging groups is 1;

T is oxygen or sulfur, or NR^{11} , in which R^{11} is hydrogen or lower alkyl;

V is $-N<$, $-CH<$, or $-N-CH<$;

X^1 is optionally substituted cycloalkyl, optionally substituted aryl, or optionally substituted heteroaryl;

Response to July 6, 2005, Office Action
Atty Dkt No. 01-0159-CIP-2
Application No. 10/759,562

X² is optionally substituted aryl or optionally substituted heteroaryl;

Y is optionally substituted monocyclic heteroarylenyl; and

Z¹ and Z² are independently optionally substituted alkylene of 1-4 carbon atoms.

2. Cancelled

3. (Currently Amended) The compound of claim 21, wherein T is oxygen.

4. (Original) The compound of claim 3, wherein R¹, R², R³, R⁴, R⁵, R⁶, R⁷ and R⁸ are independently chosen from hydrogen and methyl.

5. (Original) The compound of claim 4, wherein X¹ is optionally substituted aryl or optionally substituted heteroaryl.

6. (Original) The compound of claim 5, wherein X² is optionally substituted phenyl or optionally substituted bicyclic heteroaryl.

7. (Original) The compound of claim 6, wherein X² is 2-methylbenzothiazol-5-yl, 2-cyclohexylbenzothiazol-5-yl, 2-phenylbenzothiazol-5-yl, or 2-phenylbenzoxazol-5-yl.

8. (Original) The compound of claim 7, wherein Z¹ and Z² are both methylene.

9. (Original) The compound of claim 8, wherein Y is a diradical derived from pyrazole, benzoxazole, isoxazole, 1,3-oxazole, 1,3-thiazole, 1,2,4-oxadiazole, or 1,3,4-oxadiazole.

10. (Original) The compound of claim 9, wherein R¹, R², R³, R⁴, R⁵, R⁶, R⁷ and R⁸ are all hydrogen.

Response to July 6, 2005, Office Action
Atty Dkt No. 01-0159-CIP-2
Application No. 10/759,562

11. (Original) The compound of claim 9, wherein one of R¹, R², R³, R⁴, R⁵, R⁶, R⁷ and R⁸ is methyl and the remainder are hydrogen.

12. (Original) The compound of claim 9, wherein X¹ is phenyl optionally substituted by lower alkyl, lower alkoxy, halogen, phenyl, or trifluoromethyl.

13. (Original) The compound of claim 9, wherein Y is an isoxazole diradical.

14. (Currently Amended) The compound of claim 13, wherein the compound is selected from the group consisting of:

(2R)-1-((2S)-4-[[5-(4-chlorophenyl)isoxazol-3-yl]methyl]-2-methylpiperazinyl)-3-(2-methylbenzothiazol-5-yloxy)propan-2-ol;

(2R)-3-(4-[[5-(4-chlorophenyl)isoxazol-3-yl]methyl]piperazinyl)-1-(2-methylbenzothiazol-5-yloxy)propan-2-ol;

~~(2R)-3-((2S)-2-methyl-4-((5-[4-chlorophenyl]isoxazol-3-yl)methyl)piperazinyl)-1-(2-methylbenzothiazol-5-yloxy)propan-2-ol;~~

(2R)-3-((2S)-2-methyl-4-((5-[2-chlorophenyl]isoxazol-3-yl)methyl)piperazinyl)-1-(2-methylbenzothiazol-5-yloxy)propan-2-ol;

(2R)-3-((3S)-3-methyl-4-((5-(3,4-dichlorophenyl)isoxazol-3-yl)methyl)piperazinyl)-1-(2-methylbenzothiazol-5-yloxy)propan-2-ol;

(2R)-3-((3S)-3-methyl-4-((5-(2-chlorophenyl)isoxazol-3-yl)methyl)piperazinyl)-1-(2-methylbenzothiazol-5-yloxy)propan-2-ol;

(2R)-3-((3S)-3-methyl-4-((5-(4-chlorophenyl)isoxazol-3-yl)methyl)piperazinyl)-1-(2-methylbenzothiazol-5-yloxy)propan-2-ol;

(2S)-3-((2S)-4-[[5-(3,4-dichlorophenyl)isoxazol-3-yl]methyl]-2-methylpiperazinyl)-1-(2-methylbenzothiazol-5-yloxy)propan-2-ol;

(2R)-3-((2S)-2-methyl-4-((5-phenylisoxazol-3-yl)methyl)piperazinyl)-1-(2-methylbenzothiazol-5-yloxy)propan-2-ol;

(2R)-3-((3S)-3-methyl-4-[[5-(4-trifluoromethylphenyl)isoxazol-3-yl]methyl]piperazinyl)-1-(2-methylbenzothiazol-5-yloxy)propan-2-ol;

Response to July 6, 2005, Office Action
Atty Dkt No. 01-0159-CIP-2
Application No. 10/759,562

- (2R)-1-(2-methylbenzothiazol-5-yloxy)-3-[4-({5-[4-(trifluoromethyl)phenyl]isoxazol-3-yl}methyl)piperazinyl]propan-2-ol;
- (2R)-3-((3S)-3-methyl-4-{{5-[4-phenylphenyl]isoxazol-3-yl}methyl)piperazinyl)-1-(2-methylbenzothiazol-5-yloxy)propan-2-ol;
- (2R)-3-((3S)-3-methyl-4-[(3-(4-methoxyphenyl)isoxazol-5-yl)methyl]piperazinyl)-1-(2-methylbenzothiazol-5-yloxy)propan-2-ol;
- (2R)-3-[(2S)-2-methyl-4-({5-[4-chlorophenyl]isoxazol-3-yl}methyl)piperazinyl]-1-(2-methylbenzothiazol-5-yloxy)propan-2-ol;
- (2R)-3-[(2S)-2-methyl-4-({5-[2-chlorophenyl]isoxazol-3-yl}methyl)piperazinyl]-1-(2-methylbenzothiazol-5-yloxy)propan-2-ol;
- (2R)-3-((2S)-4-{{5-(3,4-dichlorophenyl)isoxazol-3-yl}methyl}-2-methylpiperazinyl)-1-(2-methylbenzothiazol-5-yloxy)propan-2-ol;
- ~~(2R)-3-((2S)-2-methyl-4-[(3-phenylisoxazol-5-yl)methyl]piperazinyl)-1-(2-methylbenzothiazol-5-yloxy)propan-2-ol;~~
- (2R)-3-((2S)-2-methyl-4-[(3-(4-methoxyphenyl)isoxazol-5-yl)methyl]piperazinyl)-1-(2-methylbenzothiazol-5-yloxy)propan-2-ol;
- (2R)-3-((2S)-2-methyl-4-[(3-phenylisoxazol-5-yl)methyl]piperazinyl)-1-(2-methylbenzothiazol-5-yloxy)propan-2-ol; and
- (2R)-3-((2R)-2-methyl-4-[(3-(4-methoxyphenyl)isoxazol-5-yl)methyl]piperazinyl)-1-(2-methylbenzothiazol-5-yloxy)propan-2-ol.

15. (Original) The compound of claim 9, wherein Y is a 1,3-thiazole diradical.

16. (Original) The compound of claim 15, wherein the compound is selected from the group consisting of:

- (2R)-1-(4-{{2-(4-chlorophenyl)(1,3-thiazol-4-yl)}methyl}piperazinyl)-3-(2-methylbenzothiazol-5-yloxy)propan-2-ol;
- (2R)-1-((3S)-4-{{2-(4-chlorophenyl)(1,3-thiazol-4-yl)}methyl}-3-methylpiperazinyl)-3-(2-methylbenzothiazol-5-yloxy)propan-2-ol;
- (2R)-3-(2-methylbenzothiazol-5-yloxy)-1-{4-[(2-phenyl(1,3-thiazol-4-yl))methyl]piperazinyl}propan-2-ol;

Response to July 6, 2005, Office Action
Atty Dkt No. 01-0159-CIP-2
Application No. 10/759,562

(2R)-1-((3S)-3-methyl-4-[(2-phenyl(1,3-thiazol-4-yl)methyl)piperazinyl]-3-(2-methylbenzothiazol-5-yloxy)propan-2-ol; and

(2R)-1-[(3S)-3-methyl-4-({2-[4-(trifluoromethyl)phenyl](1,3-thiazol-4-yl)}methyl)piperazinyl]-3-(2-methylbenzothiazol-5-yloxy)propan-2-ol.

17. (Original) The compound of claim 9, wherein Y is a 1,2,4-oxadiazole diradical.

18. (Original) The compound of claim 17, wherein the compound is selected from the group consisting of:

(2R)-3-[4-({3-[4-(tert-butyl)phenyl](1,2,4-oxadiazol-5-yl)}methyl)piperazinyl]-1-(2-methylbenzothiazol-5-yloxy)propan-2-ol;

(2R)-3-((2S)-2-methyl-4-[(3-(2-thienyl)(1,2,4-oxadiazol-5-yl)methyl)piperazinyl]-1-(2-methylbenzothiazol-5-yloxy)propan-2-ol;

(2R)-1-(4-({3-(2,4-dichlorophenyl)(1,2,4-oxadiazol-5-yl)}methyl)piperazinyl)-3-(2-methylbenzothiazol-5-yloxy)propan-2-ol;

(2R)-1-((2S)-4-({3-(2,4-dichlorophenyl)(1,2,4-oxadiazol-5-yl)}methyl)-2-methylpiperazinyl)-3-(2-methylbenzothiazol-5-yloxy)propan-2-ol;

(2R)-1-(4-({3-(2-chlorophenyl)(1,2,4-oxadiazol-5-yl)}methyl)piperazinyl)-3-(2-methylbenzothiazol-5-yloxy)propan-2-ol;

(2R)-1-(4-({3-(2-fluorophenyl)(1,2,4-oxadiazol-5-yl)}methyl)piperazinyl)-3-(2-methylbenzothiazol-5-yloxy)propan-2-ol;

(2R)-3-(2-methylbenzothiazol-5-yloxy)-1-(4-({3-(2-methylphenyl)(1,2,4-oxadiazol-5-yl)}methyl)piperazinyl)propan-2-ol;

(2R)-1-[(2S)-2-methyl-4-({5-[3-(trifluoromethyl)phenyl](1,2,4-oxadiazol-3-yl)}methyl)piperazinyl]-3-(2-methylbenzothiazol-5-yloxy)propan-2-ol;

(2R)-1-((3S)-4-({5-(2,4-dichlorophenyl)(1,2,4-oxadiazol-3-yl)}methyl)-3-methylpiperazinyl)-3-(2-methylbenzothiazol-5-yloxy)propan-2-ol;

(2R)-3-(2-methylbenzothiazol-5-yloxy)-1-[4-({5-[3-(trifluoromethyl)phenyl](1,2,4-oxadiazol-3-yl)}methyl)piperazinyl]propan-2-ol;

(2R)-3-(2-methylbenzothiazol-5-yloxy)-1-(4-({5-(2-methylphenyl)(1,2,4-oxadiazol-3-yl)}methyl)piperazinyl)propan-2-ol;

Response to July 6, 2005, Office Action

Atty Dkt No. 01-0159-CIP-2

Application No. 10/759,562

- (2R)-1-(4-{{5-(2-chlorophenyl)(1,2,4-oxadiazol-3-yl)}methyl}piperazinyl)-3-(2-methylbenzothiazol-5-yloxy)propan-2-ol;
- (2R)-1-(4-{{5-(2-fluorophenyl)(1,2,4-oxadiazol-3-yl)}methyl}piperazinyl)-3-(2-methylbenzothiazol-5-yloxy)propan-2-ol;
- (2R)-3-{4-[3-(4-t-butylphenyl)-[1,2,4]oxadiazol-5-ylmethyl]-piperazin-1-yl}-1-(2-methylbenzothiazol-5-yloxy)-propan-2-ol;
- (2R)-3-{4-[5-(4-(trifluoromethyl)phenyl)-[1,2,4]oxadiazol-3-ylmethyl]-piperazin-1-yl}-1-(2-methylbenzothiazol-5-yloxy)-propan-2-ol;
- (2R)-1-(2-methylbenzothiazol-5-yloxy)-3-[4-{{5-[4-(trifluoromethyl)phenyl](1,2,4-oxadiazol-3-yl)}methyl}piperazinyl]propan-2-ol;
- (2R)-1-[(3S)-3-methyl-4-{{5-[4-(trifluoromethyl)phenyl](1,2,4-oxadiazol-3-yl)}methyl}piperazinyl]-3-(2-methylbenzothiazol-5-yloxy)propan-2-ol; and
- (2R)-3-[(2S)-2-methyl-4-{{5-[4-(trifluoromethyl)phenyl](1,2,4-oxadiazol-3-yl)}methyl}piperazinyl]-1-(2-methylbenzothiazol-5-yloxy)propan-2-ol.

19. (Original) The compound of claim 9, wherein Y is a benzoxazole diradical.

20. (Original) The compound of claim 19, wherein the compound is selected from the group consisting of:

- (2R)-3-(2-methylbenzothiazol-5-yloxy)-1-{4-[(5-phenylbenzoxazol-2-yl)methyl]piperazinyl}propan-2-ol; and
- (2R)-3-[(2S)-2-methyl-4-[(5-phenylbenzoxazol-2-yl)methyl]piperazinyl]-1-(2-methylbenzothiazol-5-yloxy)propan-2-ol.

21. (Original) The compound of claim 9, wherein Y is a 1,3,4-oxadiazole diradical.

Response to July 6, 2005, Office Action
Atty Dkt No. 01-0159-CIP-2
Application No. 10/759,562

22. (Original) The compound of claim 21, wherein the compound is selected from the group consisting of:

- (2R)-1-((2S)-2-methyl-4-{{5-(4-methylphenyl)(1,3,4-oxadiazol-2-yl)}methyl}piperazinyl)-3-(2-methylbenzothiazol-5-yloxy)propan-2-ol;
- (2R)-1-((2S)-4-{{5-(4-chlorophenyl)(1,3,4-oxadiazol-2-yl)}methyl}-2-methylpiperazinyl)-3-(2-methylbenzothiazol-5-yloxy)propan-2-ol;
- (2R)-1-(4-{{5-(4-chlorophenyl)(1,3,4-oxadiazol-2-yl)}methyl}piperazinyl)-3-(2-methylbenzothiazol-5-yloxy)propan-2-ol;
- (2R)-3-(2-methylbenzothiazol-5-yloxy)-1-(4-{{5-(4-methylphenyl)(1,3,4-oxadiazol-2-yl)}methyl}piperazinyl)propan-2-ol;
- (2R)-3-(2-methylbenzothiazol-5-yloxy)-1-[4-({5-[4-(trifluoromethyl)phenyl](1,3,4-oxadiazol-2-yl)}methyl)piperazinyl]propan-2-ol;
- (2R)-3-(2-methylbenzothiazol-5-yloxy)-1-[4-({5-[3-(trifluoromethyl)phenyl](1,3,4-oxadiazol-2-yl)}methyl)piperazinyl]propan-2-ol;
- (2R)-3-(2-methylbenzothiazol-5-yloxy)-1-(4-{{5-(4-phenylphenyl)(1,3,4-oxadiazol-2-yl)}methyl}piperazinyl)propan-2-ol;
- (2R)-1-[4-({5-[4-(tert-butyl)phenyl](1,3,4-oxadiazol-2-yl)}methyl)piperazinyl]-3-(2-methylbenzothiazol-5-yloxy)propan-2-ol;
- (2R)-3-(2-methylbenzothiazol-5-yloxy)-1-[4-{{5-(2-naphthyl)(1,3,4-oxadiazol-2-yl)}methyl}piperazinyl]propan-2-ol;
- (2R)-1-[4-({5-[4-(dimethylamino)phenyl](1,3,4-oxadiazol-2-yl)}methyl)piperazinyl]-3-(2-methylbenzothiazol-5-yloxy)propan-2-ol;
- (2R)-1-(4-{{5-(2-chlorophenyl)(1,3,4-oxadiazol-2-yl)}methyl}piperazinyl)-3-(2-methylbenzothiazol-5-yloxy)propan-2-ol;
- (2R)-1-(4-{{5-(4-methoxyphenyl)(1,3,4-oxadiazol-2-yl)}methyl}piperazinyl)-3-(2-methylbenzothiazol-5-yloxy)propan-2-ol;
- (2R)-3-(2-methylbenzothiazol-5-yloxy)-1-[4-{{5-phenyl(1,3,4-oxadiazol-2-yl)}methyl}piperazinyl]propan-2-ol;
- (2R)-1-((2S)-2-methyl-4-[(5-phenyl(1,3,4-oxadiazol-2-yl))methyl]piperazinyl)-3-(2-methylbenzothiazol-5-yloxy)propan-2-ol;

Response to July 6, 2005, Office Action
 Atty Dkt No. 01-0159-CIP-2
 Application No. 10/759,562

- (2R)-1-[(2S)-2-methyl-4-({5-[3-(trifluoromethyl)phenyl](1,3,4-oxadiazol-2-yl)}methyl)piperazinyl]-3-(2-methylbenzothiazol-5-yloxy)propan-2-ol;
- (2R)-1-[(2S)-2-methyl-4-{{5-(4-phenylphenyl)(1,3,4-oxadiazol-2-yl)}methyl}piperazinyl]-3-(2-methylbenzothiazol-5-yloxy)propan-2-ol;
- (2R)-1-[(2S)-4-({5-[4-(tert-butyl)phenyl](1,3,4-oxadiazol-2-yl)}methyl)-2-methylpiperazinyl]-3-(2-methylbenzothiazol-5-yloxy)propan-2-ol;
- (2R)-1-[(2S)-2-methyl-4-[(5-(2-naphthyl)(1,3,4-oxadiazol-2-yl))methyl]piperazinyl]-3-(2-methylbenzothiazol-5-yloxy)propan-2-ol;
- (2R)-1-[(2S)-4-({5-[4-(dimethylamino)phenyl](1,3,4-oxadiazol-2-yl)}methyl)-2-methylpiperazinyl]-3-(2-methylbenzothiazol-5-yloxy)propan-2-ol;
- (2R)-3-((2S)-4-{{5-(2-chlorophenyl)(1,3,4-oxadiazol-2-yl)}methyl}-2-methylpiperazinyl)-1-(2-methylbenzothiazol-5-yloxy)propan-2-ol;
- (2R)-3-((2S)-4-{{5-(4-methoxyphenyl)(1,3,4-oxadiazol-2-yl)}methyl}-2-methylpiperazinyl)-1-(2-methylbenzothiazol-5-yloxy)propan-2-ol; and
- (2R)-1-[(2S)-2-methyl-4-({5-[4-(trifluoromethyl)phenyl](1,3,4-oxadiazol-2-yl)}methyl)piperazinyl]-3-(2-methylbenzothiazol-5-yloxy)propan-2-ol.

23. (Original) The compound of claim 9, wherein Y is a 1,3-oxazole diradical.

24. (Original) The compound of claim 23, wherein the compound is selected from the group consisting of (2R)-3-[(2S)-2-methyl-4-({2-[4-(trifluoromethyl)phenyl](1,3-oxazol-5-yl)}methyl)piperazinyl]-1-(2-methylbenzothiazol-5-yloxy)propan-2-ol and (2R)-1-(2-methylbenzothiazol-5-yloxy)-3-[4-({2-[4-(trifluoromethyl)phenyl](1,3-oxazol-4-yl)}methyl)piperazinyl]propan-2-ol.

25 (Withdrawn from Consideration) A method of treating a disease state chosen from diabetes, damage to skeletal muscles resulting from trauma or shock and a cardiovascular disease in a mammal by administration of a therapeutically effective dose of a compound of claim 1.

Response to July 6, 2005, Office Action
Atty Dkt No. 01-0159-CIP-2
Application No. 10/759,562

26. (Withdrawn from Consideration) The method of claim 25, wherein the cardiovascular disease is atrial arrhythmia, intermittent claudication, ventricular arrhythmia, Prinzmetal's (variant) angina, stable angina, unstable angina, congestive heart disease, or myocardial infarction.

27. (Withdrawn from Consideration) The method of claim 25, wherein the disease state is diabetes.

28. (Original) A pharmaceutical composition comprising at least one pharmaceutically acceptable excipient and a therapeutically effective amount of a compound of claim 1.

29 (Withdrawn from Consideration) A method of preserving donor tissue and organs used in transplants, comprising administering to a mammal in need thereof a therapeutically effective dose of a compound of claim 1.